

Claims

1  
2  
3 <sup>Sub</sup> 1. Within a document server, a computer-implemented method for  
4 customizing a requested document comprising at least one hypertext markup  
5 language (HTML) element, the method comprising:

6 parsing the document to generate therefrom a corresponding document  
7 object model (DOM) including at least one object;  
8 obtaining a style sheet including at least one rule directed to a target device;  
9 applying the at least one rule of the style sheet to the DOM; and  
10 flattening the DOM to generate therefrom a corresponding transformed  
11 document suitable for display by the target device.

12  
13 2. The method of claim 1, wherein the style sheet comprises a cascading  
14 style sheet (CSS).

15  
16 3. The method of claim 1, wherein the obtaining step comprises:  
17 identifying a target device for displaying the document; and  
18 identifying at least one rule of a style sheet directed to the identified target  
19 device.

20  
21 4. The method of claim 3, further comprising:

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21

receiving a request for a document from a client program.

5. The method of claim 4, wherein the client program comprises a Web browser.

6. The method of claim 1, wherein the style sheet includes rules directed to at least two different target devices.

7. The method of claim 1, wherein the style sheet is stored within a separate portion of the document.

8. The method of claim 1, wherein the style sheet and the document are stored as logically separate data files.

9. The method of claim 1, further comprising:  
transmitting the transformed document to a client program.

10. The method of claim 1, the transforming step comprising:  
removing at least one object of the DOM in response to an indication within  
the style sheet to remove a corresponding HTML element from the  
document.

a flattening module configured to flatten the DOM to generate therefrom a corresponding transformed document suitable for display by the target device.

a target device identification module configured to identify a target device for displaying the document; and

14. The system of claim 13, further comprising:  
a request reception module configured to receive a request for a document  
from a client program.

15. The system of claim 14, wherein the client program comprises a Web browser.

16. The system of claim 11, wherein the style sheet includes rules directed to at least two different target devices.

17. The system of claim 11, wherein the style sheet is stored within a separate portion of the document.

18. The system of claim 11, wherein the style sheet and the document are stored as logically separate data files.

19. The system of claim 11, further comprising:

1 a transmission module configured to transmit the transformed document to  
2 a client program.

3  
4 20. The system of claim 11, wherein the style sheet application module  
5 comprises:

6 an object removal module configured to remove at least one object of the  
7 DOM in response to an indication within the style sheet to remove a  
8 corresponding HTML element from the document.

9  
10 21. An article of manufacture comprising a program storage medium  
11 readable by a processor and embodying one or more instructions executable by the  
12 processor to perform a computer-implemented method for customizing a requested  
13 document comprising at least one hypertext markup language (HTML) element, the  
14 method comprising:

15 parsing the document to generate therefrom a corresponding document  
16 object model (DOM) including at least one object;  
17 obtaining a style sheet including at least one rule directed to a target device;  
18 applying the at least one rule of the style sheet to the DOM; and  
19 flattening the DOM to generate therefrom a corresponding transformed  
20 document suitable for display by the target device.

27. The article of manufacture of claim 21, wherein the style sheet is stored within a separate portion of the document.

